		STAT
February 20, 1969		
U.S. Government		
Attention: George M.		
Dear George:		
Recently you requested a quotation for a 0.5 power relay lens and cell a replacement unit in a Type 880 or 1210 binocular microscope viewing system, a special film transport for the Type 1032T Microdensitometer, and service for the modification of your Type 1032 Microdensitometer digital readout system. We are please to provide the following quotation:	L.	STAT STAT STAT
Item 1		
0.5 power relay lens and cell to replace a 1-power relay lens unit in a Type 880 or 1210, 400 Series binocular microscope viewing system. This lens provides approximately 200 lines per millimeter resolution at 40X magnification, and changes the field of view to 5 millimeters. The magnification ranges to 10 to 20X with a 5X eyepiece, and 20 to 40X with a 10X eyepiece. Apparent		STAT
reticle width to 5 microns at the film plane. Price includes neces sary instruction for customer installation.) -	STAT
Item 2		
Special film transport (manual) for Type 1032T Microdensitometer similar to film stage for 9-1/2" film furnished with 1032T07 except minus the upper pressure frames (clear and glass))	STAT
but to include a special glass insert having a slot $9-1/2$ " long x $5/2$ wide covered with a sheet of .010" thick glass.	811	STAT
Item 3		_
Modification of your Type 1032 Microdensitometer digital readout system including equipment, services, and supplemental		STAT
drawings, to permit increase in density data sampling rate at lower scan speeds as described below.		STAT
		-

Approved For Release 2006/06/27 : CIA-RDP78B04770A001400070002-9

STAT

U.S. Government

- 2 -

February 20, 1969

The present system provides for selection of sampling intervals in increments of one micron, and is limited by the resolution of the X and Y data heads. To permit more frequent sampling, it will be necessary to provide an external asynchronous oscillator, shaping and resynchronizing circuits and switching for selection of the sampling source.

The introduction of the external sampling signal will be at a point in the circuit after the interval counter. Thus, the coordinate values recorded on tape at the beginning and end of the scan will retain their proper significance. The coordinates of any sample may be determined to a reasonable degree of accuracy by interpolation.

A wide range variable frequency oscillator, such as the Model STAT 1310-A will be used as the sampling rate source. It will be provided with a rack type mount designed to replace one of the blank panels in the present equipment rack. A switch for selection of external or internal sampling source will be mounted with the oscillator.

For shaping, resynchronizing and gating, it is proposed that unused circuits on the SDS cards in chassis A and B of the present equipment be utilized. It is estimated that the necessary installation and wiring may be completed in the field within one day.

The external sampling rate source will provide a resolution of over one thousand samples per micron when used at the lowest scan speed of 125 microns per minute.

The delivery schedule would be 30	days for Item 1 and 90 days for Items 2
and 3, after receipt of an order.	Our terms are net 30 days, and all prices
quoted are fob	This quotation is firm for a period of
60 days.	' - ★

STAT.

We trust this information is sufficient for your immediate action.

	STAT
Director of Marketine	

Director of Marketing

ACT/bc

Approved For Release 2006/06/27 - CIA-RDP78B04770A001400070002-9

R & D CATALOG FORM			15 April 1969				
1. PROJECT TITLE/CODE NAME	2. 9	SHORT PROJEC	T DESCRIPTION				
Microdensitometer fications (Stage Modification)	Modi- Thi		SZT Microde	ensitome	a modified stage for ter operated at NPIC.	STAT	
3. CONTRACTOR NAME		4. LOCATION OF CONTRACTOR			CTOR	C III T	
						STAT	
5. CLASS OF CONTRACTOR		6. TYPE	OF CONTRACT				
Manufacturer			FP				
7. FUNDS	8.	REQUISITION	NO.		9. BUDGET PROJECT NO.		
FY 19 68 \$ None							
FY 19 69 \$		10. EFFECTIVE CONTRACT DATE (Begin - end)			A.A Confidential	STAT	
FY 19 70 \$ None	Ma	May 1969 - July 1969			T Unclassified W Unclassified		
12. RESPONSIBLE DIRECTORATE/	OFFICE/PROJECT	OFFICER TELE	PHONE EXTENSI	on		***************************************	
DDI/NPIC/TSSG	/DED				•	STAT	
13. REQUIREMENT/AUTHORITY The 1032T caused by the thic before any color f	k glass stag	ge. These			ical aberrations have to be reduced	STAT	
14. TYPE OF WORK TO BE DONE							
Engineering D	evelopment						
15. CATEGORIES OF EFFORT	· · · · · · · · · · · · · · · · · · ·				-		
MAJOR CATEGORY				SUB-CATE	GORIES		
Precision Measurement Microdensitometry Optical Systems							
	Optical bystems						
16. END ITEM OR SERVICES FRO							
have a center sect problems caused by	ion of very	thin glas	s which wi		. This stage will mize the optical		
17. SUPPORTING OR RELATED CO	NTRACTS (Adaper	& Other)/co	ORDINATION	This cou	ntract will run con-		
currently with ano					the scan control and	STAT	
sampling system. After completion of this contract, commercial lens systems will be tried in the microdensitometer to reduce other optical aberrations; if the re-							
sults of this inve	crodensitome stigation ar	ter to re	auce other isfactory.	optica. a lens	1 aberrations; if the development will be	re-	
sults of this inverse required. Coordin	ation-throug	HEXRAND	has been t	erformed escription	of PROJECT (Continue on ad	di-	
tional page if required)					nalytical instrument	STAT	
used in the evalua	tion of film	imagery.	The inst	rument :	is also used to a		
					elligence value. At		
present the instrument is virtually useless in analyzing color imagery because of the aberrations in the optical system, the stage being a prime cause of these							
aberrations. By minimizing the thickness of the stage the aberrations caused							
by it will also be	minimized.						
19. APPROVED BY AND DATE							
OFFICE	DEPUTY DIRECTOR			DDCI		-	
						STREET,	